



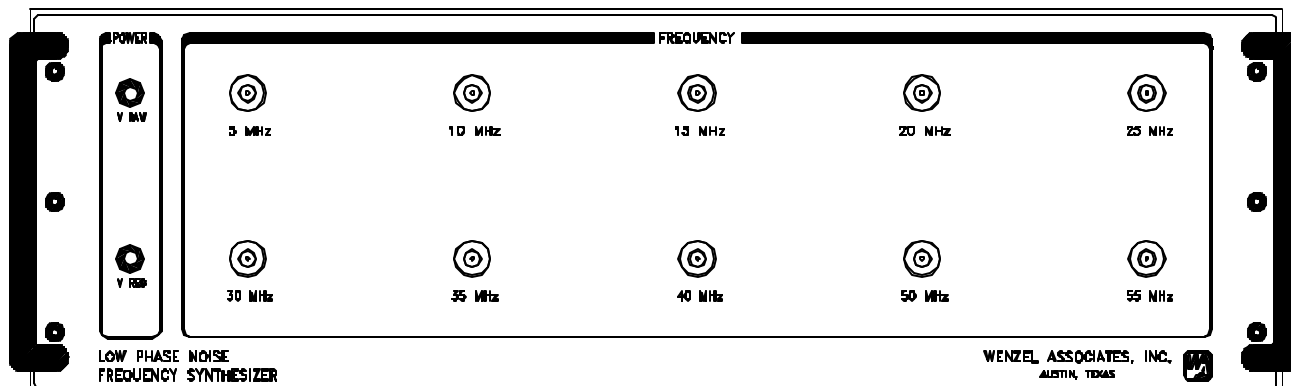
BluePhase Synthesizer

Ultra Low Phase Noise Frequency Synthesizer

WA5100

(5 MHz Input from Source Model 5000)

Outputs: 5, 10, 15, 20, 25, 30, 35, 40, 50, and 55 MHz



OUTPUTS

POWER	+13 dBm $\pm$ 2 dB into 50 Ω with +13 dBm input				
HARMONICS	$\leq$ -25 dBc				
SUB-HARMONICS	$\leq$ -60 dBc				
SPURIOUS	$\leq$ -80 dBc				
PHASE NOISE L(F)	10 Hz	100 Hz	1 KHz	10 KHz	100 KHz
5 MHz	-150 dBc	-165 dBc	-173 dBc	-174 dBc	-174 dBc
10 MHz	-143 dBc	-158 dBc	-166 dBc	-167 dBc	-167 dBc
15 MHz	-139 dBc	-154 dBc	-163 dBc	-163 dBc	-163 dBc
20 MHz	-136 dBc	-151 dBc	-160 dBc	-160 dBc	-160 dBc
25 MHz	-135 dBc	-150 dBc	-159 dBc	-159 dBc	-159 dBc
30 MHz	-132 dBc	-147 dBc	-156 dBc	-156 dBc	-156 dBc
35 MHz	-130 dBc	-145 dBc	-154 dBc	-154 dBc	-154 dBc
40 MHz	-125 dBc	-140 dBc	-149 dBc	-149 dBc	-149 dBc
50 MHz	-128 dBc	-143 dBc	-152 dBc	-152 dBc	-152 dBc
55 MHz	-127 dBc	-142 dBc	-151 dBc	-151 dBc	-151 dBc

REFERENCE INPUT

5 MHz +13 dBm $\pm$ 2 dB into 50 Ω (rear input)

ENVIRONMENT

Laboratory Environment
0 to +50°C Operating Temperature

MECHANICAL

Size Standard 19" rack mount, 22 deep, 5.25" high
RF Connectors SMA female
AC Connector IEC-320, EMI filtered, switched, and fused

POWER

Warm-up Time 1 hour, maximum; 15 minutes, typical (@ +25°C)
AC Power Supply 115 VAC, 50/60 Hz

Wenzel Associates, Inc. • 2215 Kramer Lane. • Austin, Texas 78758 USA

512-835-2038 • fax 512-719-4086

<http://www.wenzel.com> • e-mail: sales@wenzel.com

Model

WA5100

Rev.

—